

# SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - **70** to **100** Volts FORWARD CURRENT - **3.0** Amperes

#### **FEATURES**

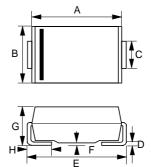
- For surface mounted applications
- Metal-Semiconductor junction with guardring
- Epitaxial construction
- Very Low forward voltage drop
- High current capability
- Plastic material has UL flammability classification 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

#### **MECHANICAL DATA**

• Case : Molded plastic

Polarity : Color band denotes cathodeWeight : 0.007 ounces, 0.21 grams

## SMC



SMC					
DIM.	MIN.	MAX.			
Α	6.60	7.11			
В	5.59	6.22			
С	2.92	3.18			
D	0.15	0.31			
Е	7.75	8.13			
F	0.05	0.20			
G	2.01	2.62			
Н	0.76	1.52			
All Dimensions in millimeter					

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at  $25^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	B370	B380	B390	B3100	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	70	80	90	100	V
Maximum RMS Voltage	VRMS	49	56	63	70	V
Maximum DC Blocking Voltage	VDC	70	80	90	100	V
Maximum Average Forward Rectified Current @TL=90	)°C I(AV)	3.0			А	
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC METHO	DD)	100			A	
Maximum Forward Voltage at @TJ =25   3.0A DC   @TJ =10	l VF l	0.79 0.69			V	
Maximum DC Reverse Current @TJ =25 at Rated DC Blocking Voltage @TJ =10	l IR I	0.5 20			mA	
Typical Junction Capacitance (Note 1)	Cı	100			pF	
Typical Thermal Resistance (Note 2)	Rejl	10		°C/W		
Operating Temperature Range	TJ	-55 to +125			°C	
Storage Temperature Range	Тѕтс	-55 to +150			°C	

NOTES : 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2.Thermal Resistance Junction to Lead.

REV. 2, 01-Dec-2000, KSHC02



